

2. (Amended) The conjugate of Claim 1, wherein the apparent molecular weight of the conjugate is at least about 800 kD.

D2 3. (Amended) The conjugate of Claim 1, wherein the apparent molecular weight of the conjugate is at least about 1,400 kD.

4. (Amended) The conjugate of Claim 1, wherein the apparent molecular weight of the conjugate is at least about 1,800 kD.

D3 8. (Amended) The conjugate of Claim 1, wherein the antibody fragment is selected from the group consisting of Fab, Fab', Fab'-SH, Fv, scFv and F(ab')₂.

D4 13. (Amended) The conjugate of Claim 1, wherein the antibody fragment is modified by one nonproteinaceous polymer molecule.

D5 16. (Amended) The conjugate of Claim 15, wherein the antibody fragment is modified by one nonproteinaceous polymer molecule.

D6 23. (Amended) The conjugate of Claim 19, wherein the antibody fragment is a F(ab')₂ modified by two PEG molecules.

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D7 27. (Amended) The conjugate of Claim 26, wherein the antibody fragment is selected from the group consisting of Fab, Fab' and Fab'-SH modified by one PEG molecule having an average actual molecular weight of about 30 kD.

D8 32. (Twice Amended) A conjugate formed by an antibody fragment covalently modified by one or two nonproteinaceous polymer molecules at a free sulfhydryl group of a cysteine residue within the hinge region of the antibody fragment, wherein (a) the apparent molecular weight of the conjugate, as determined by size exclusion chromatography, is at least about 500 kD, and (b) the average actual molecular weight of each nonproteinaceous polymer molecule is at least 20 kD, and wherein the molecular structure of the conjugate is free of other matter.

33. (Twice Amended) A conjugate formed by an antibody fragment covalently modified by one or two nonproteinaceous polymer molecules at a free sulfhydryl group of a cysteine residue within the hinge region of the antibody fragment, wherein (a) the apparent molecular weight of the conjugate, as determined by size exclusion chromatography, is at least about 500 kD, (b) the average actual molecular weight of each nonproteinaceous polymer molecule is at least 20 kD, and (c) the antibody fragment incorporates a nonproteinaceous label free of any polymer, and wherein the molecular structure of the conjugate is free of other matter.